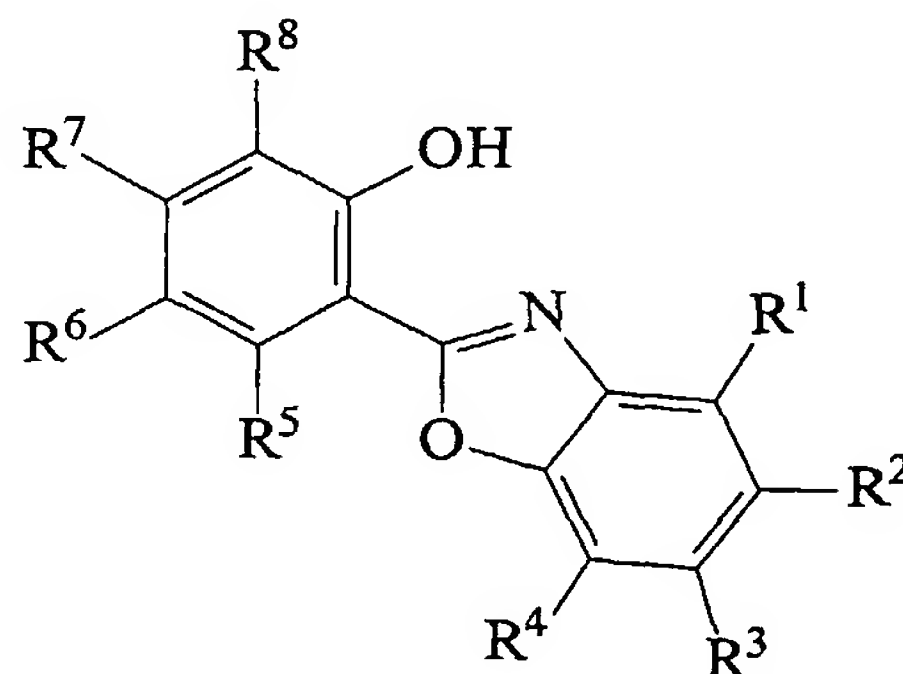


**WHAT IS CLAIMED IS:**

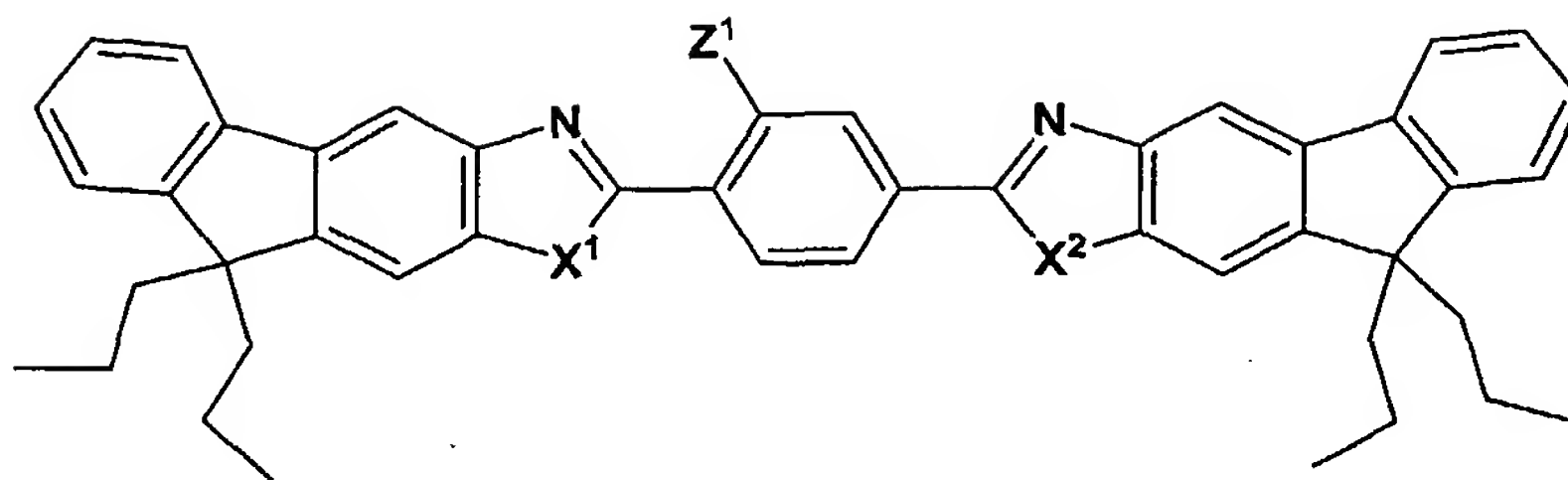
1. A compound of the formula X-Y-Z; wherein  
Y is an aromatic cyclic structure substituted at least once with  
OH and optionally substituted with SH, H, C<sub>1-22</sub> alkyl, C<sub>2-22</sub> alkene,  
C<sub>2-22</sub> alkyne, primary, secondary or tertiary amine, amino, nitro,  
nitroso, halogen; and  
at least one of X and Z are a carbon-containing ring structure  
that may also contain at least one of oxygen, nitrogen and sulfur.
2. The compound of claim 1, wherein X and Z are independently  
selected from H, nitro, nitroso, cyano, halogen, C<sub>1-22</sub> alkyl, C<sub>1-22</sub> alkoxy, -C(O)R<sup>9</sup>  
wherein R<sup>9</sup> is C<sub>1-8</sub> alkyl, -O-C-O-R<sup>9</sup> wherein R<sup>9</sup> is C<sub>1-8</sub> alkyl, -COOR<sup>10</sup> wherein R<sup>10</sup>  
is H or C<sub>1-8</sub> alkyl, -C(O)NR<sup>10</sup> wherein R<sup>10</sup> is H or C<sub>1-8</sub> alkyl, a primary, secondary or  
tertiary amine, substituted or unsubstituted carbocyclic ring, a substituted or  
unsubstituted aryl ring, a substituted or unsubstituted heteroaryl ring, a substituted  
or unsubstituted benzannulated carbocyclic ring, a substituted or unsubstituted  
benzannulated heterocyclic ring, a substituted or unsubstituted arylannulated  
carbocyclic ring or a substituted or unsubstituted arylannulated heterocyclic ring.
3. The compound of claim 1, wherein the compound is a 2-  
hydroxyphenyl(benzoxazol-2-yl) of the formula:



5 wherein  $R^1$ ,  $R^2$ ,  $R^3$  and  $R^4$  are independently selected from H, alkyl ( $C_1$ - $C_8$ ), alkoxy ( $C_1$ - $C_8$ ), acyl ( $-C(O)R$ ;  $R$  = alkyl  $C_1$ - $C_8$ ),  
10 acetoxo ( $-OC(O)R$ ;  $R$  = alkyl  $C_1$ - $C_8$ ), carboxylic acid and esters ( $-CO_2R$  = H or alkyl of  $C_1$ - $C_8$ ), amine ( $NR_2$ ;  $R$  = H or alkyl  $C_1$ - $C_8$ ),  
nitro, nitroso, cyano, halogen, substituted aryl, unsubstituted aryl,  
substituted heteroaryl, unsubstituted heteroaryl, amide, or wherein  
15  $R^1$  and  $R^2$  or  $R^2$  and  $R^3$  or  $R^3$  and  $R^4$  together form a  
carbocyclic ring, substituted or unsubstituted and fused carbocyclic  
ring, substituted or unsubstituted benzannulated carbocyclic and  
substituted or unsubstituted arylannulated carbocyclic; and  $R^5$ ,  $R^6$ ,  
20  $R^7$  and  $R^8$  = H, alkyl ( $C_1$ - $C_8$ ), alkoxy ( $C_1$ - $C_8$ ), acyl ( $-C(O)R$ ;  $R$  =  
alkyl  $C_1$ - $C_8$ ), acetoxo ( $-OC(O)R$ ;  $R$  = alkyl  $C_1$ - $C_8$ ), carboxylic acid  
and esters ( $-CO_2R$  = H or alkyl of  $C_1$ - $C_8$ ), amine ( $NR_2$ ;  $R$  = H or  
alkyl  $C_1$ - $C_8$ ), nitro, nitroso, cyano, halogen (Cl, Br, I or F),  
substituted or unsubstituted aryl, substituted or unsubstituted  
25 heteroaryl, amide ( $-C(O)NR_2$   $R$  = H or alkyl  $C_1$ - $C_8$ ), substituted or  
unsubstituted heterocyclic, substituted or unsubstituted  
benzannulated heterocyclic and substituted or unsubstituted  
arylannulated heterocyclic; or  
 $R^5$  and  $R^6$  or  $R^6$  and  $R^7$  or  $R^7$  and  $R^8$  together form a  
carbocyclic ring, substituted or unsubstituted benzannulated  
carbocyclic and substituted or unsubstituted arylannulated  
carbocyclic.

4. The compound of claim 3, wherein the compound has the formula:

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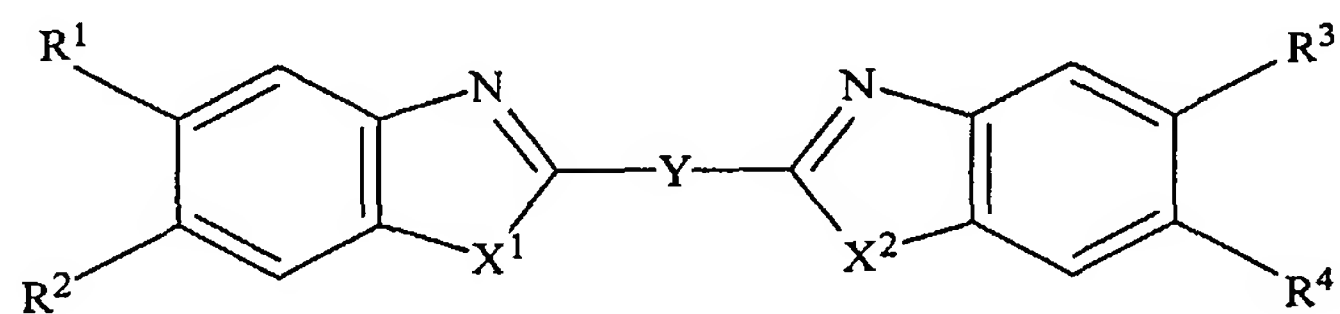
wherein  $X^1$  and  $X^2$  are independently O, N or S; and  
 $Z^1$  is OH, SH, a primary amine, or a secondary amine.

5            5.        The compound of claim 3, further defined as 1,4-Bis(9,9-dipropyl -  
 9H-fluoreno[3,2-d]oxazol-2-yl)-2-hydroxyphenyl.

6.        The compound of claim 3, further defined as 2,7-Bis(5-  
 methylbenzoxazol-2-yl)-9,9-dipropyl-3-hydroxyfluorene

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7.        The compound of claim 1, wherein the compound is of the formula:

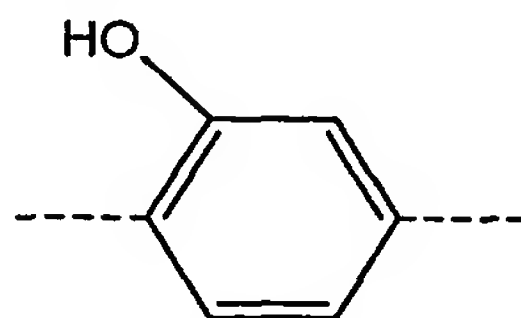


wherein:

$X^1$  and  $X^2$  are independently selected from N, S or O;

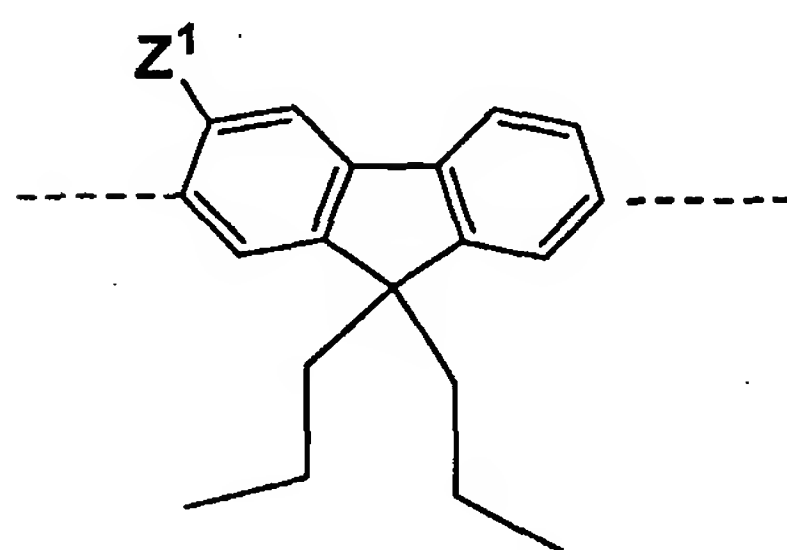
Y is

15



or

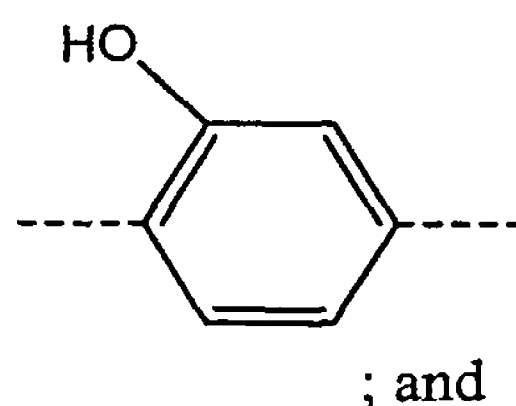
$R^1$ ,  $R^2$ ,  $R^3$  and  $R^4$  are independently a substituted or unsubstituted, straight or branched C1-C22 alkyl, C1-C22 alkene,



5

C1-C22 alkynyl, or

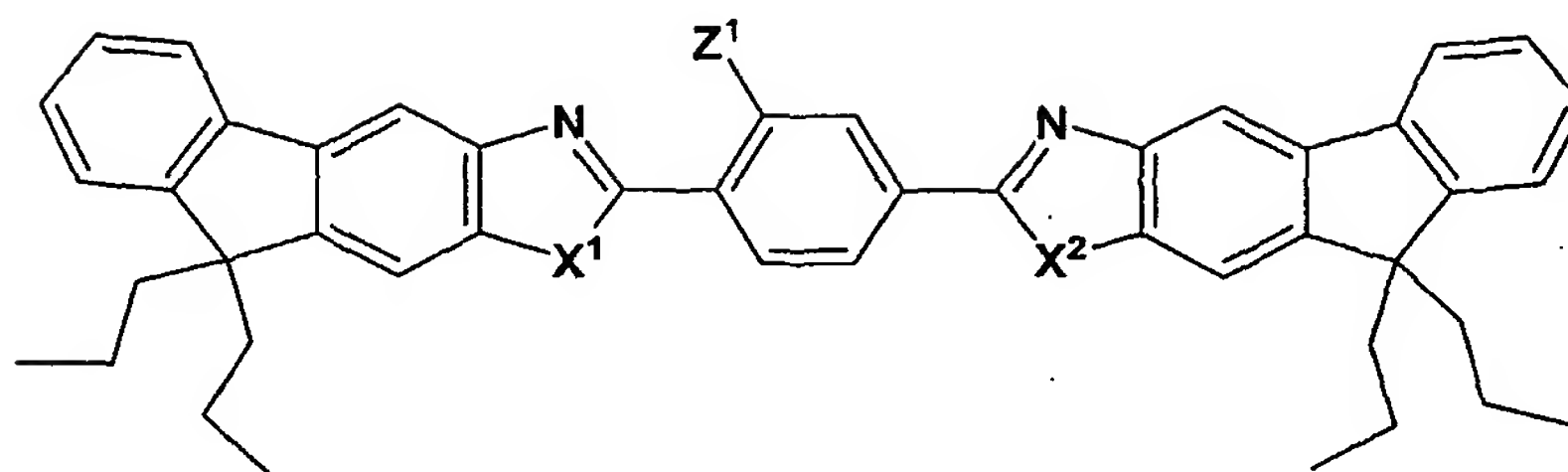
wherein  $R^1$  and  $R^2$  together or  $R^3$  and  $R^4$  form an aromatic or nonaromatic 1 to 3 ring cyclic structure; and



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at least one of the pairs  $R^1$  and  $R^2$  or  $R^3$  and  $R^4$  form an aromatic or nonaromatic 1 to 3 ring cyclic moiety.

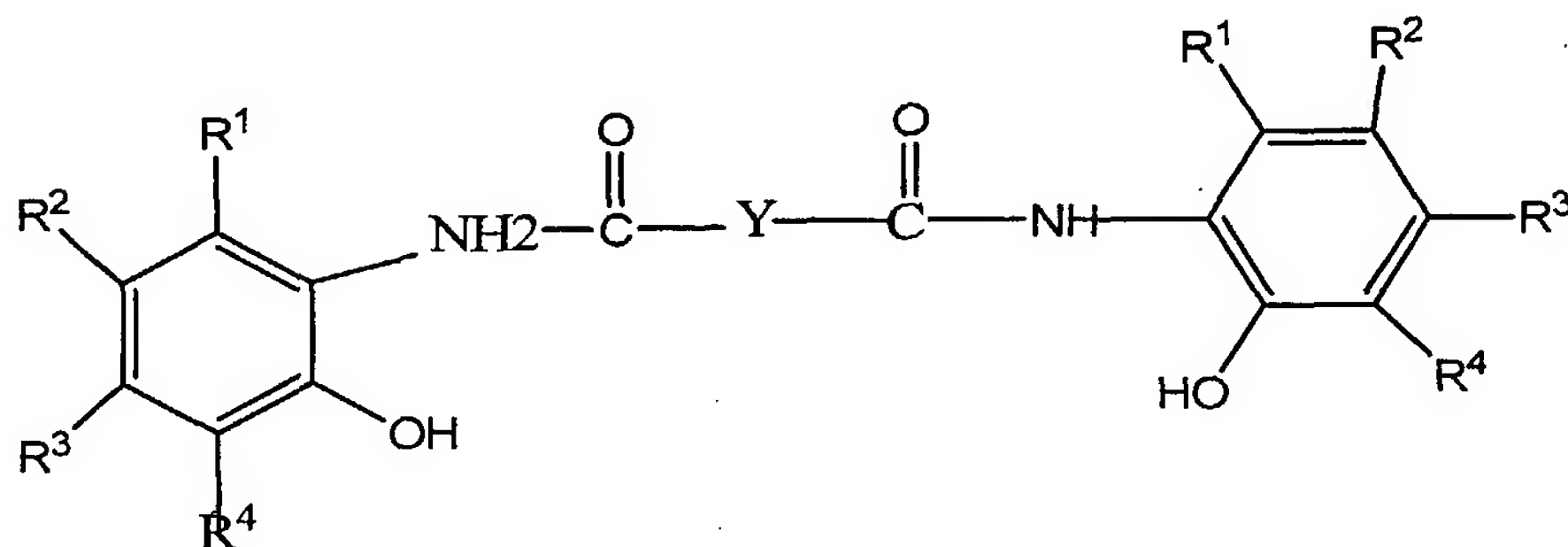
8. The compound of claim 6, wherein the compound has the formula:



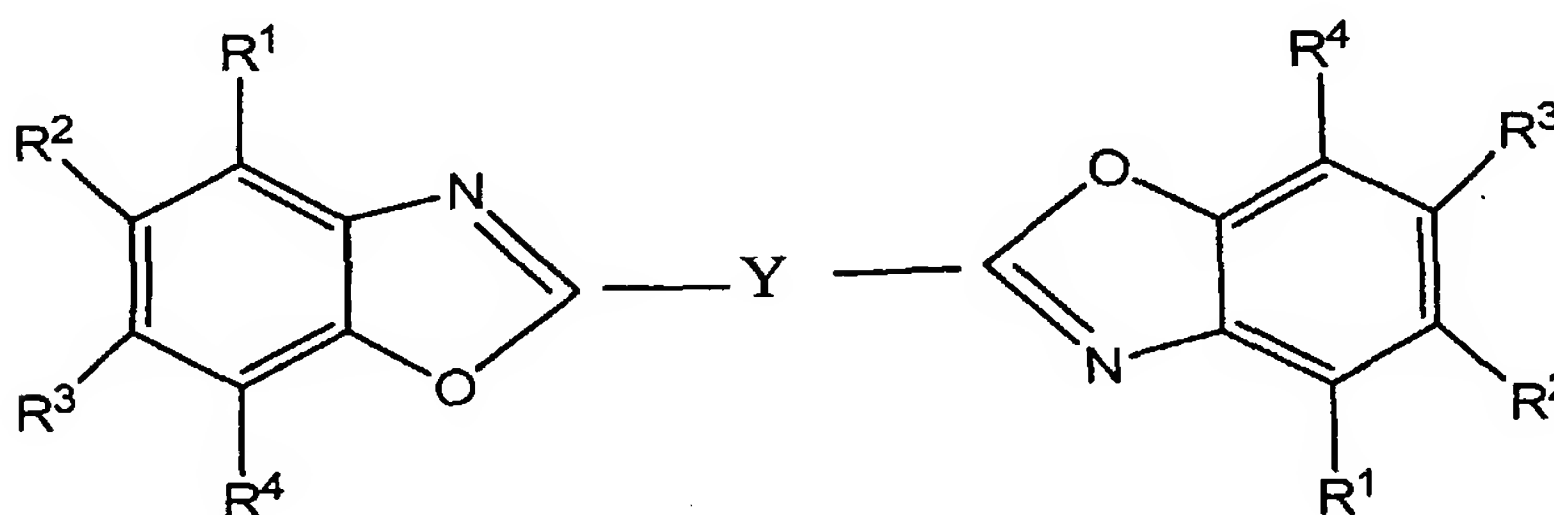
wherein  $X^1$  and  $X^2$  are independently O, N or S; and  $Z^1$  is OH, SH, a primary amine, or a secondary amine.

- 5            9.        The compound of claim 8, wherein  $Z^1$  is OH, SH or  $NH_2$ .
10.        The compound of claim 6, further defined as 1,4-Bis(9,9-dipropyl -  
9H-fluoreno[3,2-d]oxazol-2-yl)-2-hydroxyphenyl.
- 10           11.        The compound of claim 6, further defined as 2,7-Bis(5-  
methylbenzoxazol-2-yl)-9,9-dipropyl-3-hydroxyfluorene.
12.        A polymer blend comprising a polymeric material and the compound  
of claim 1.
- 15           13.        The polymer blend of claim 12, wherein said polymeric compound is  
polycarbonate.
14.        The polymer blend of claim 12, wherein the polymeric material is  
CR39.
- 20           15.        A method for manufacturing an optical lens comprising molding a  
polymer blend of claim 12 into a desired shape to produce an optical lens.
16.        The method of claim 15, wherein said molding step is injection  
25        molding.

17. A method comprising the steps of preparing an intermediate compound of Formula 6



and reacting the formula under suitable conditions and with suitable reagents  
5 to form a compound of the formula



Formula 7

wherein

10 Y is an aromatic or nonaromatic cyclic structure optionally substituted at least once with OH, SH, H, C<sub>1-22</sub> alkyl, C<sub>2-22</sub> alkene, C<sub>2-22</sub> alkyne, primary, secondary or tertiary amine, amino, nitro, nitroso, halogen; and

15 R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup> and R<sup>4</sup> are independently selected from H, alkyl (C<sub>1</sub>-C<sub>8</sub>), alkoxy (C<sub>1</sub>-C<sub>8</sub>), acyl (-C(O)R; R = alkyl C<sub>1</sub>-C<sub>8</sub>), acetoxy (-OC(O)R; R = alkyl C<sub>1</sub>-C<sub>8</sub>), carboxylic acid and esters (-CO<sub>2</sub>R = H or alkyl of C<sub>1</sub>-C<sub>8</sub>), amine (NR<sub>2</sub>; R = H or alkyl C<sub>1</sub>-C<sub>8</sub>), nitro, nitroso, cyano, halogen (Cl, Br, I or F), substituted or unsubstituted aryl,

substituted or unsubstituted heteroaryl, amide (-C(O)NR<sub>2</sub> R = H or alkyl C<sub>1</sub>-C<sub>8</sub>), or wherein

5 R<sup>1</sup> and R<sup>2</sup> or R<sup>2</sup> and R<sup>3</sup> or R<sup>3</sup> and R<sup>4</sup> together form a carbocyclic ring, substituted or unsubstituted and fused carbocyclic ring, substituted or unsubstituted benzannulated carbocyclic and substituted or unsubstituted arylannulated carbocyclic; and R<sup>5</sup>, R<sup>6</sup>, R<sup>7</sup> and R<sup>8</sup> = H, alkyl (C<sub>1</sub>-C<sub>8</sub>), alkoxy (C<sub>1</sub>-C<sub>8</sub>), acyl (-C(O)R; R = alkyl C<sub>1</sub>-C<sub>8</sub>), acetoxymy (-OC(O)R; R = alkyl C<sub>1</sub>-C<sub>8</sub>), carboxylic acid and esters (-CO<sub>2</sub>R = H or alkyl of C<sub>1</sub>-C<sub>8</sub>), amine (NR<sub>2</sub>; R = H or  
10 alkyl C<sub>1</sub>-C<sub>8</sub>), nitro, nitroso, cyano, halogen (Cl, Br, I or F), substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl, amide (-C(O)NR<sub>2</sub> R = H or alkyl C<sub>1</sub>-C<sub>8</sub>), substituted or unsubstituted heterocyclic, substituted or unsubstituted benzannulatedheterocyclic and substituted or unsubstituted  
15 arylannulated heterocyclic.